24. the very ſmall Veſſels] *The ſame with thoſe mentioned* Note 21.

25. Bladders] *See Dr.* Grews *Deſcription of the Pith, and thereof theſe Bladders*, Anat. of Roots part. 2. *And* Anat. of Trunks, part. 2. Ch. 4.

26. darkiſh Globules] *See the ſame* Ch. p. 34.

27. Extraordinary ſmallneſs] *See the ſame* Ch. 32, 33 *Note, that theſe Bladders, whereof the Pith conſiſts, Sign.* Malpighi *doth alſo obſerve; but not the Fibres, of which Fibres (moſt admirably Woven up-together) Dr.* Grew *hath diſcovered the ſaid Bladders to be compoſed. See the ſame* Ch. p. 35.

Eclipſis Solis
Anno 1675, die 23 *Junii* mane ſt. *n.* obſerv.
G E D A N I,
à
Joh. Hevelio.

UT ut non omnes & ſingulas phaſes in hâc Eclipſi, ab ipſo initio, ob frequentiſſimas denſiſſimaſque Nubes hîc Gedani *obſervare nobis obtigerit; attamen præcipuas creſcentes ex voto annotare licuit. Sol oriens clariſſimus quidem extitit, ſic ut ipſum initium admodum diſtinctè, hor. ſc. 4. 44', deprehenſum fuerit; paulò autem pòſt, horâ ſc. 5. 6' nubes Solem nobis planè eripiebant, ut nihil quicquam ad h ram uſque 5. 32' deprehendere licuerit, ut ut vigiles ſemper oculos ad Tabulam obſ rvatoriam direxerimus. Ex improviſo tamen præter omnem ſtem, horâ, ut dixi, 5. 32' nubes Solem rurſus deſerebant, ut ejus Phaſes omnes ſubſequenter, à 1 ad 23, uti ex Schemate liquet, accuratè deſcribere potuerim. Prior phaſis ante maximam obſcurationem adhuc annotata eſt; maxima namque obſcuratio circa tertiam phaſin, horâ videlicet 5. 39'. primùm incidit, prout pariter ex ipſo typo videre eſt; Finis contigit hora 6. 33'. 30''. Quantitas Eclipſeos obſervata eſt 6 digit. 42', ad 37' ſcilicet major, quàm calculus* Rudolphinus *eam promiſerat; imò Initium & Finis ſatis evidenter ſecundùm dictum calculum in hac Eclipſi aberravit; quippe liquidum eſt, ad 12 integra ferè minuta tardiùs incidiſſe: Semidiameter quoque Lunæ calculo hâc vice non reſpondet; ſiquidem circa hor. 5. 55', alto ſcilicet Sole 15° ferè, Semidiam. Lunæ non niſi 14'. 37'' extitit; cùm tamen calculus eam 15'. 29'' monſtraverit, datâ nempe ſemidiametro Solis 15'. Hæc ſunt, quæ obſervata in hâc Eclipſ. fuêre.*

Calculus *Rudolphinus.*	Hor.	'	''	Obſervatio. Hor.	'	''	Differentia.
Initium *Gedani*,	4	31	42	4	44	0	12
Maxima obſcur.	5	28	20	5	39	0	11
Finis,	6	24	58	6	33	30	9
Duratio,	1	53	16	1	50	0	3
Quantitas,	vj. *digit.*	5'		vj. *dig.*	42'		37

Eclipſ.

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Eclipſ. Sol.

Anno 1675, die 23 *Junii* obſerv.

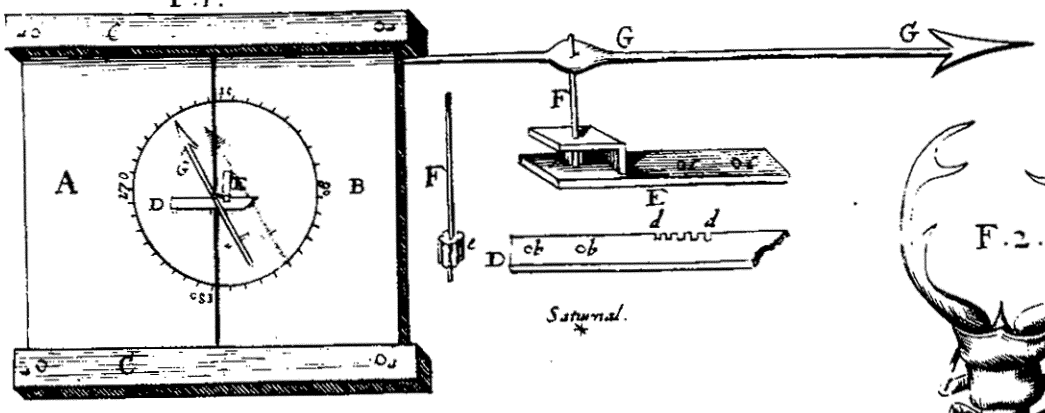
G E D A N I.

Ordo Phaſium	Animavertenda.	Temp. ex ſciat. Hor.	′	″	Tempore Correcto. Hor.	′	″
	Solis centrum in horizonte,				3	21	30
	Nihil in Sole,				3	56	30
	Sol ſub nubibus,				4	6	0
	Nihil in Sole,	4	35	0	4	35	0
	Nihil in Sole,	4	37	0	4	37	10
	Nihil in Sole,	4	40	0	4	40	0
	Nihil adhuc,				4	42	0
	Initium,				4	44	0
	Nubes Solem planè occultarunt,				4	54	30
	Sol nuſquam apparuit,				5	6	0
1	$6\frac{1}{2}$ *digiti ferè obſcurati erant, cùm Sol rurſus emicuit.*				5	32	0
2	$6\frac{2}{3}$ *digit.*	dig.	′		5	34	0
3	*Maxima ferè obſcurat.*	6	42		5	38	50
4					5	40	30
5					5	42	0
6	$6\frac{1}{2}$ *digit.*				5	43	30
7	$6\frac{1}{4}$ *digit.*				5	47	30
8	6 *digit.*				5	49	30
9	$5\frac{1}{2}$ *dig. Diamet.* ☽,	14′	37″		5	55	0
10	$5\frac{1}{4}$ *dig.*				5	57	0
11	5 *ferè digit.*				5	59	30
12	$4\frac{5}{8}$ *digit.*				6	2	0
13	$4\frac{1}{2}$ *dig.*				6	4	15
14	4 *digit.*				6	6	30
15	$3\frac{5}{8}$ *dig.*				6	9	15
16	$3\frac{1}{4}$ *dig.*				6	14	35
17	$2\frac{5}{8}$ *dig.*				6	18	10
18	$2\frac{3}{8}$ *dig.*				6	20	0
19	2 *dig.*				6	22	0
20	$1\frac{1}{2}$ *dig.*				6	24	0
21	$1\frac{1}{4}$ *dig.*				6	25	25
22	1 *dig.*				6	27	10
23	$\frac{1}{2}$ *digit.*				6	30	30
	Finis.	Altitudo ☉.			6	33	30
		°	″				
	Altitudo ☉	25	20	0	6	41	22
	Altitudo ☉	26	36	0	6	50	4
	Altitudo ☉	27	40	0	6	57	22
	Altitudo ☉	28	5	0	7	0	14

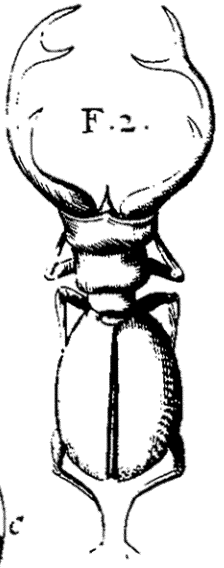
So far the Learn'd *Hevelius*; who was alſo pleaſed to communicate his Obſervation of the Figure of *Saturn*, as it appeared to him in *Auguſt*, 1675. to be ſeen in *Tab.* I. *Fig.* 3.

Mr.

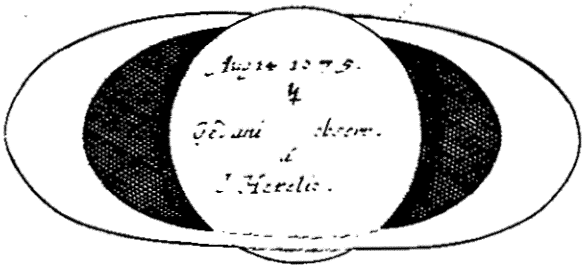
F. 1.



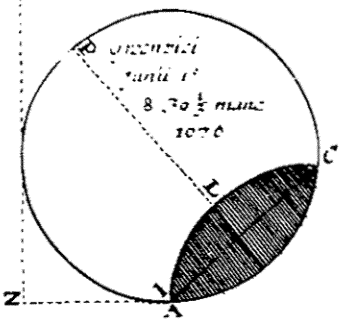
F. 2.



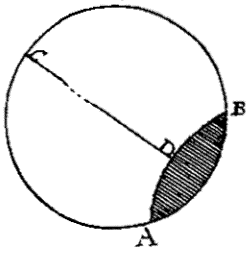
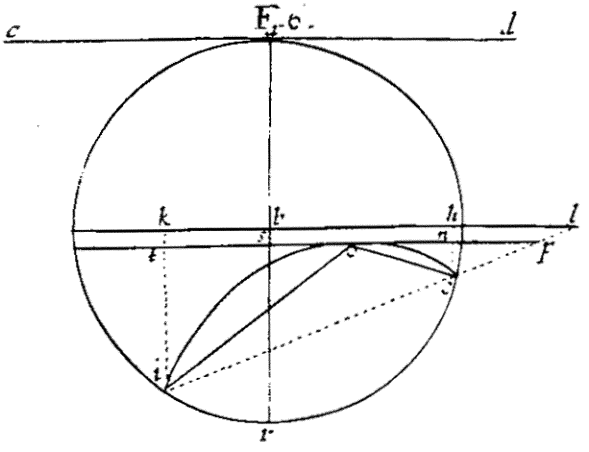
F. 3.



F. 4.



F. 5.



F. 6.